Recombinant Human HAVCR1 Protein, His-tagged

Cat. No. HAVCR1-3870H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HAVCR1(Met 1-Val 135) fused with His tag at the C-terminus was produced in HEK293.
Species	Human
Source	HEK293
ProteinLength	Met 1-Val 135
Description	HAV cellular receptor 1 (HAVCR1), also known as Kidney injury molecule 1 (KIM-1) and T cell immunoglobulinmucin 1 (TIM-1), is a type â… integral membrane glycoprotein. KIM-1 protein is widely expressed with highest levels in kidney and testis. It has been shown to play a major role as a human susceptibility gene for asthma, allergy and autoimmunity. IgA1lambda is a specific ligand of KIM-1 protein and that their association has a synergistic effect in virus-receptor interactions. KIM-1 involves in the pathogenesis of acute kidney injury. It had been confirmed that KIM-1 is a human urinary renal dysfunction biomarker. Moreover, KIM-1 protein is a novel regulatory molecule of flow-induced calcium signaling.
Predicted N Terminal	Ser 21
Form	Lyophilized from sterile PBS, pH 7.4 1. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.

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	2. Please contact us for any concerns or special requirements.
Molecular Mass	The recombinant human KIM1 (aa 1-135) comprises 143 amino acids and predicts a molecular mass of 15.8 kDa. As a result of glycosylation, the apparent molecular mass of KIM1 (aa 1-135) is approximately 22-26 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Purity	> 97 % as determined by SDS-PAGE
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	HAVCR1 hepatitis A virus cellular receptor 1 [Homo sapiens]
Official Symbol	HAVCR1
Synonyms	HAVCR1; hepatitis A virus cellular receptor 1; HAVCR; HAVCR 1; TIM 1; TIM1; TIMD1; kidney injury molecule 1; T-cell membrane protein 1; T cell immunoglobin

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	domain and mucin domain protein 1; TIM; KIM1; KIM-1; TIM-1; TIMD-1; HAVCR-1;
Gene ID	26762
mRNA Refseq	NM_001099414
Protein Refseq	NP_001092884
MIM	606518
UniProt ID	Q96D42

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